

FIG. 1 (Prior Art)

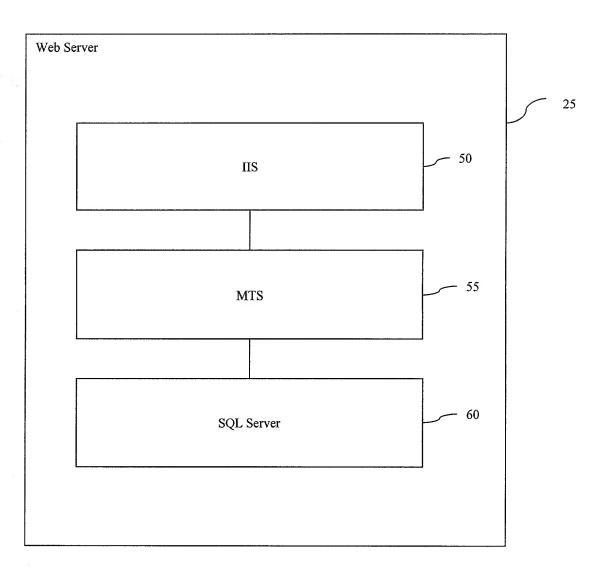


FIG.2 (Prior Art)

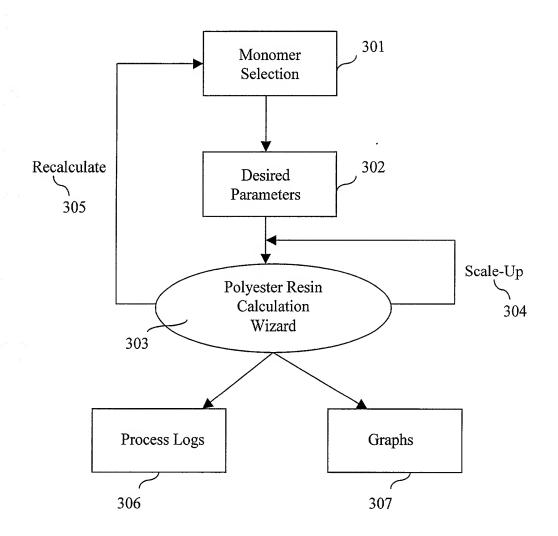


FIGURE 3A

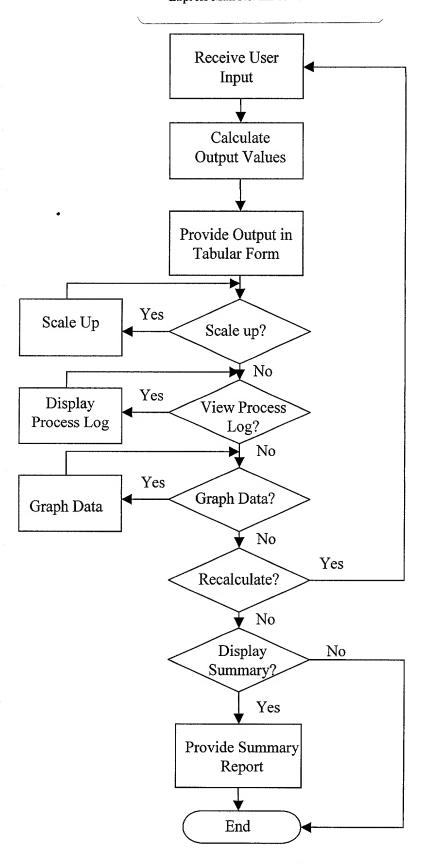


FIGURE 3B

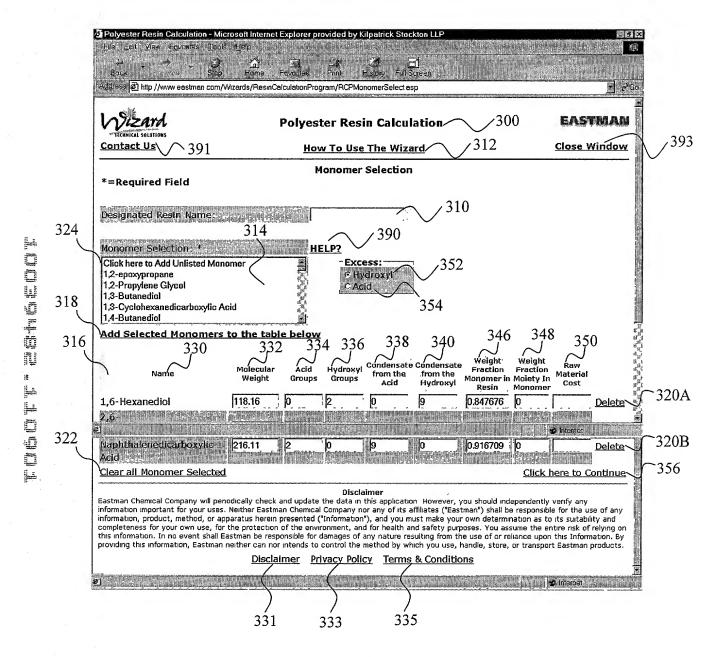


FIGURE 3C

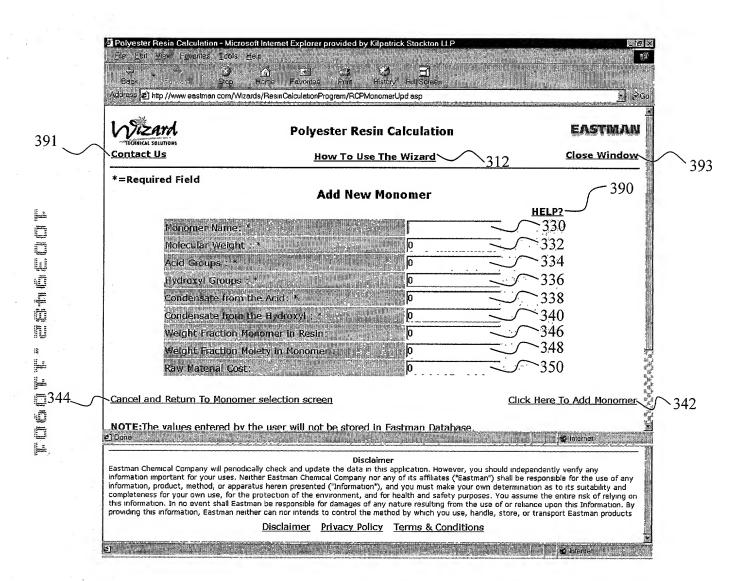


FIGURE 3D

FIGURE 3E

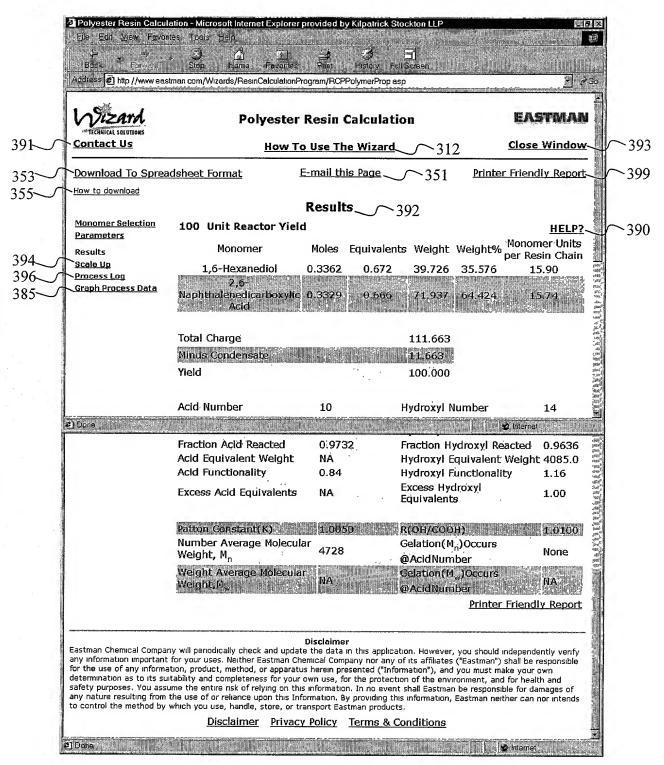


FIGURE 3F

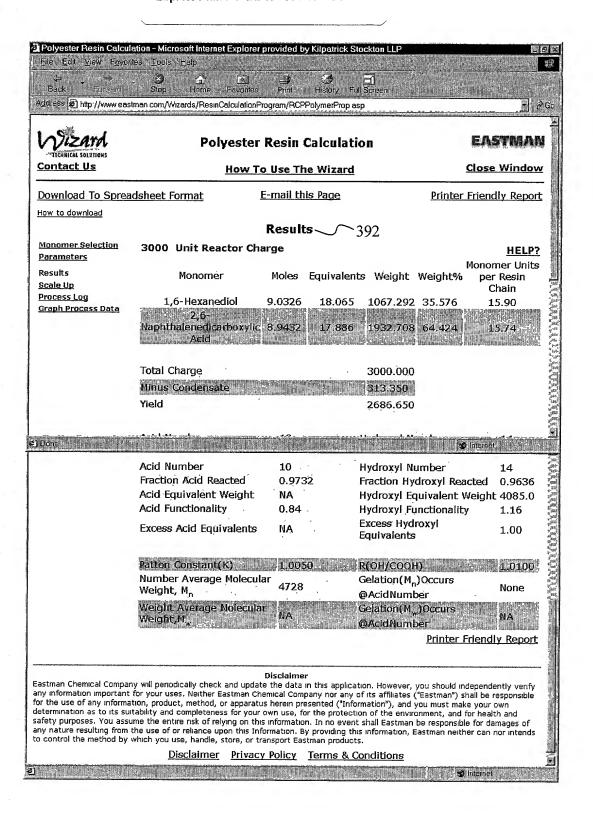


FIGURE 3G

FIGURE 3H

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	Graph Process Data	
	Select Parameters to Graph	
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387 ~ ∌) Đone	One X coordinate and two Y coordinates may be selected. Parameters X-Axis Y-Axis	garage (and the second
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any information important for your for the use of any information, pro- determination as to its suitability safety purposes. You assume the any nature resulting from the use	Disclaimer errodically check and update the data in this application. However, you services. Neither Eastman Chemical Company nor any of its affiliates ("East oduct, method, or apparatus herein presented ("Information"), and you mand completeness for your own use, for the protection of the environment entire risk of relying on this information. In no event shall Eastman be reof or reliance upon this information. By providing this information, Eastman use, handle, store, or transport Eastman products. Disclaimer Privacy Policy Terms & Conditions	tman") shall be responsible nust make your own nt, and for health and

FIGURE 3I

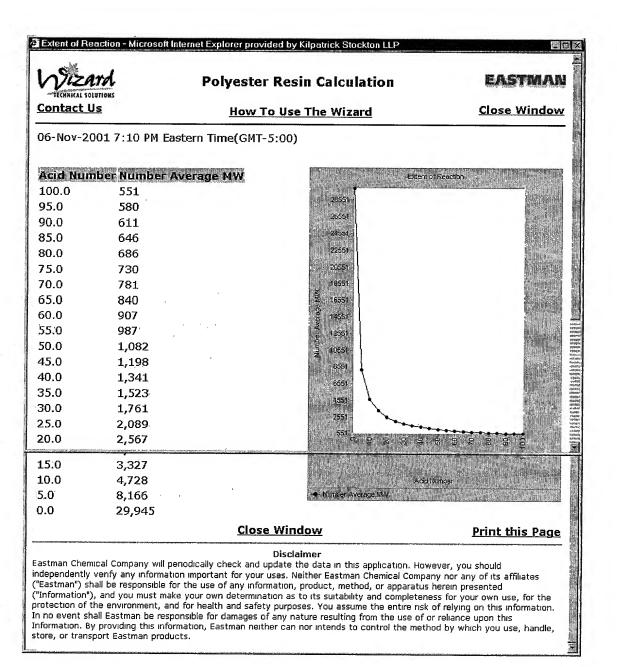


FIGURE 3J

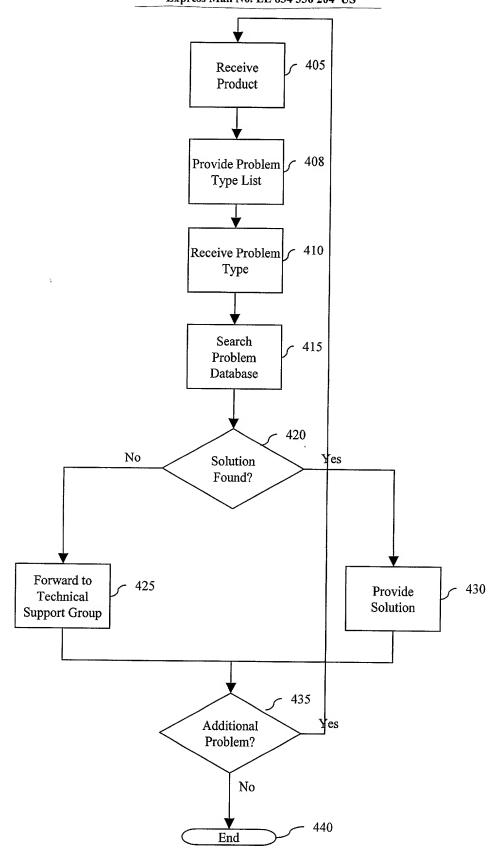
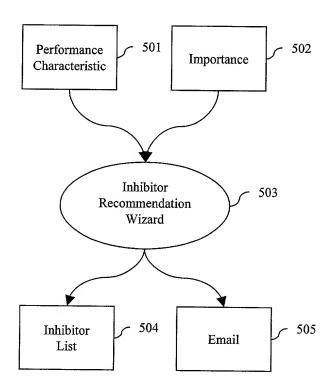
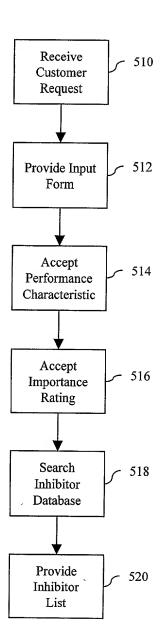


FIG. 4





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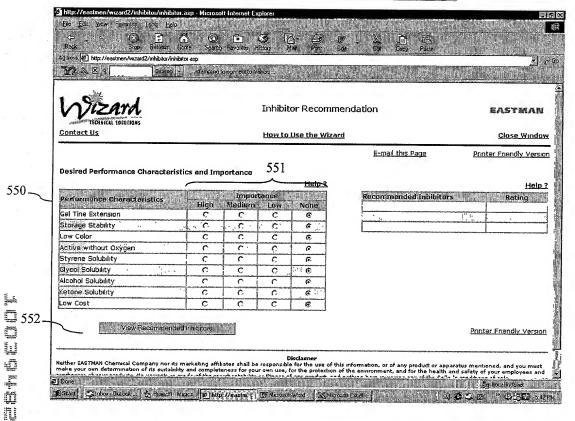
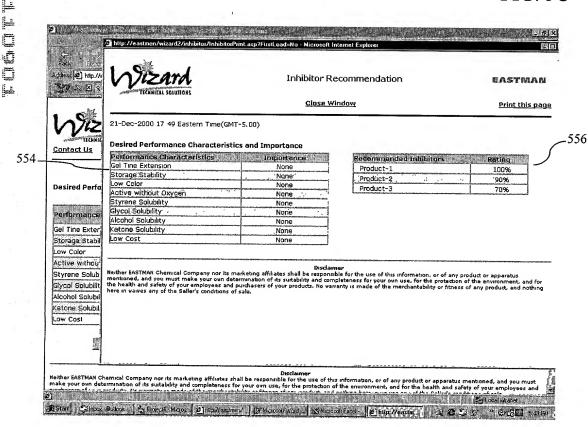
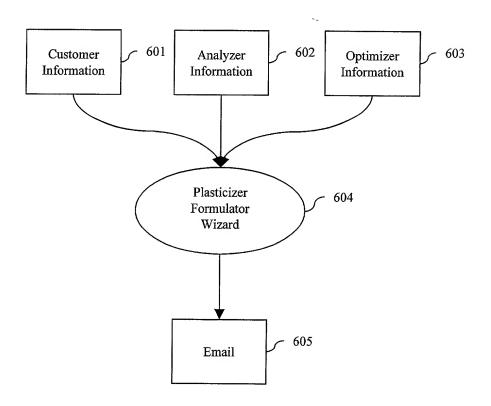
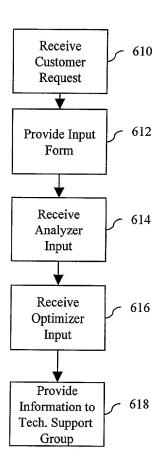
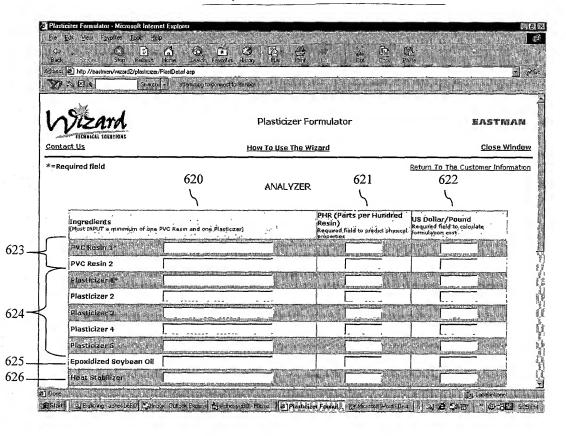


FIG. 5C









N

FIG. 6C

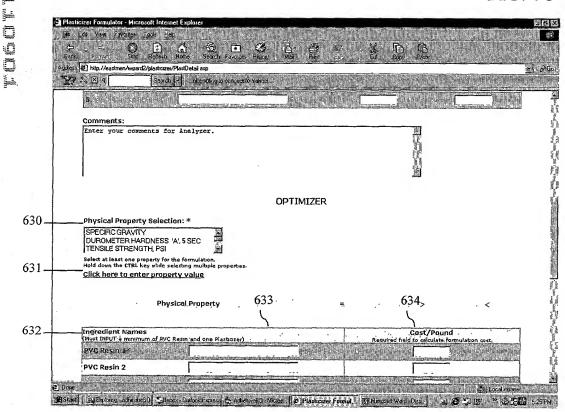
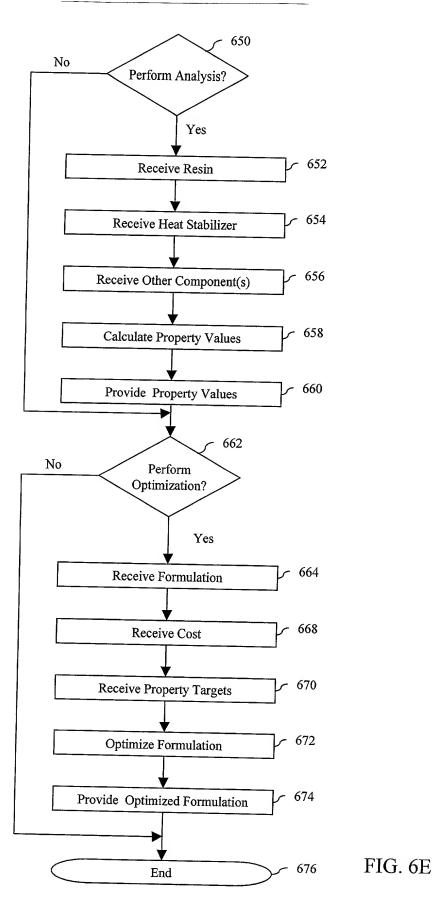


FIG. 6D



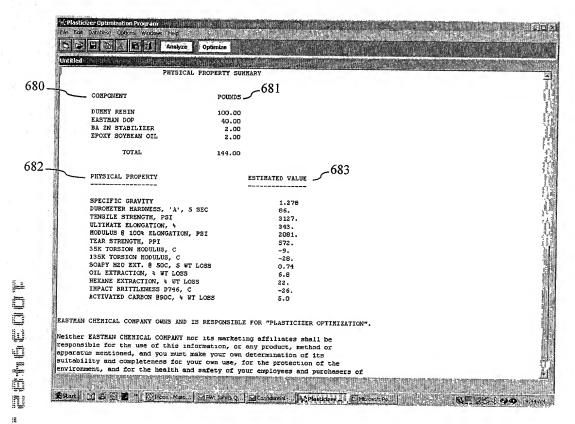


FIG. 6F

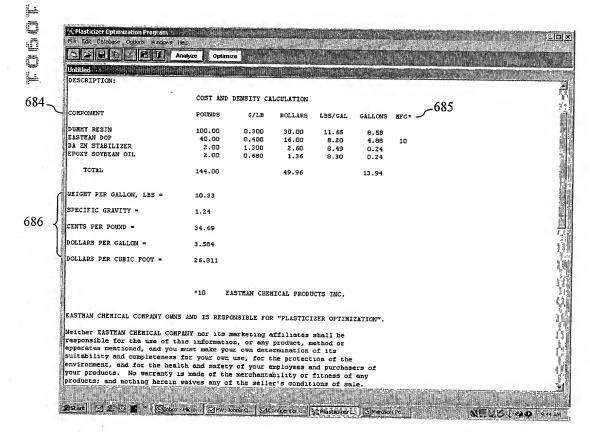


FIG. 6G

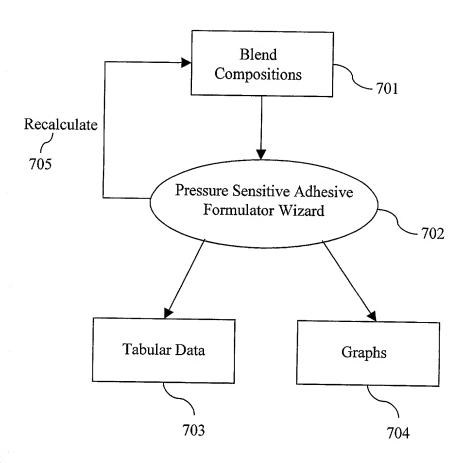


FIGURE 7A

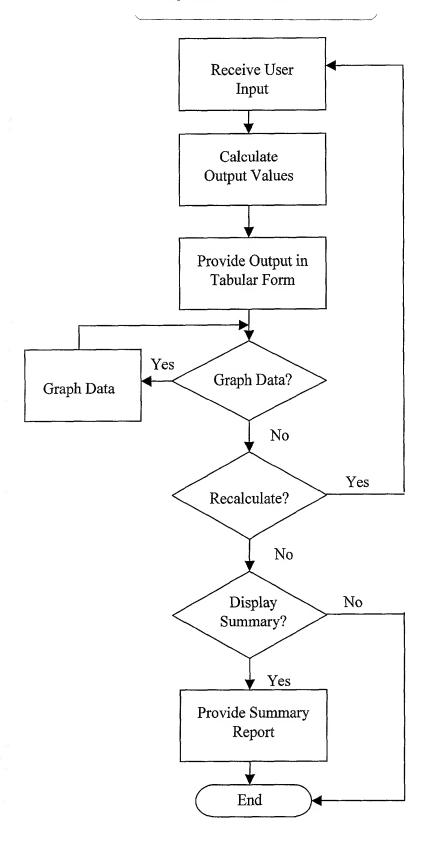


FIGURE 7B

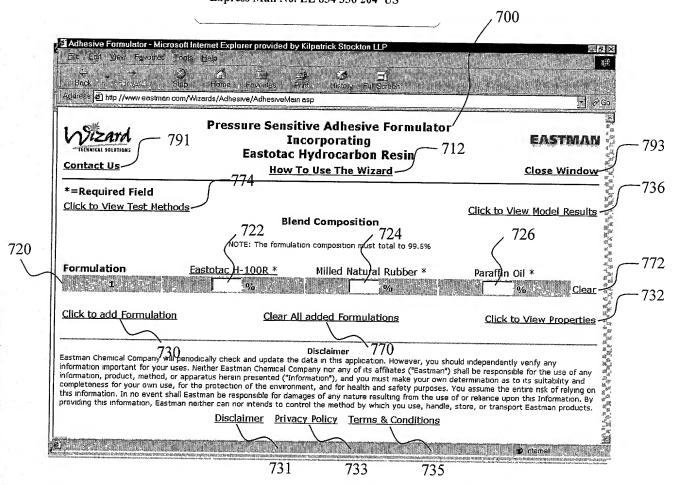


FIGURE 7C

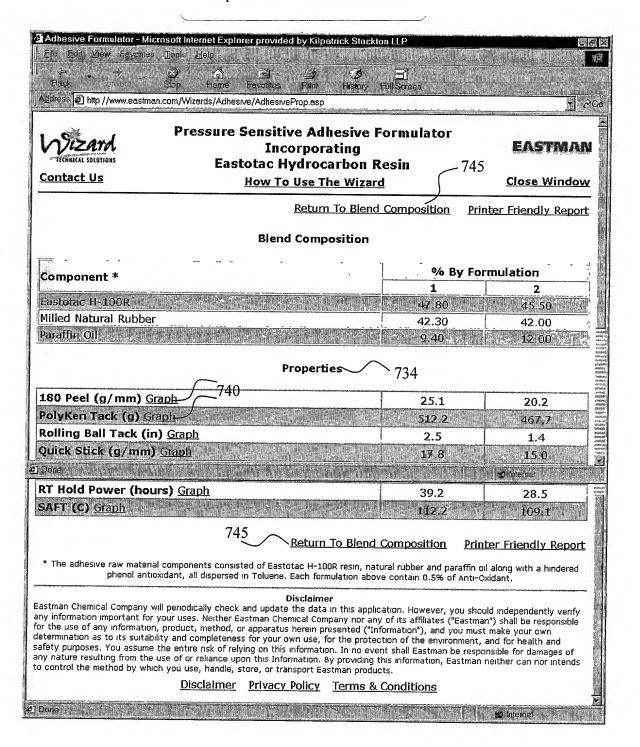


FIGURE 7D

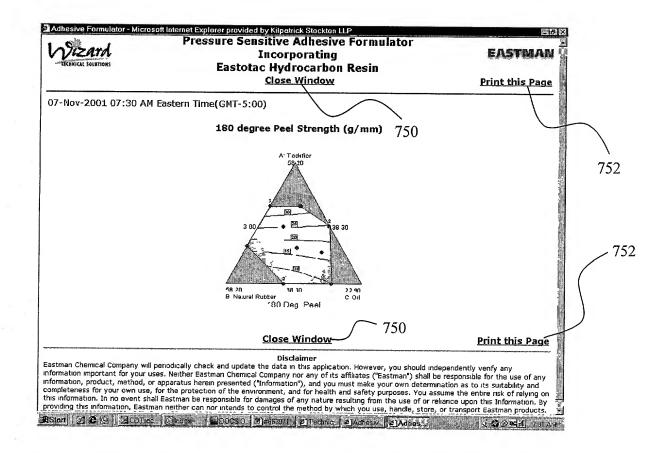


FIGURE 7E

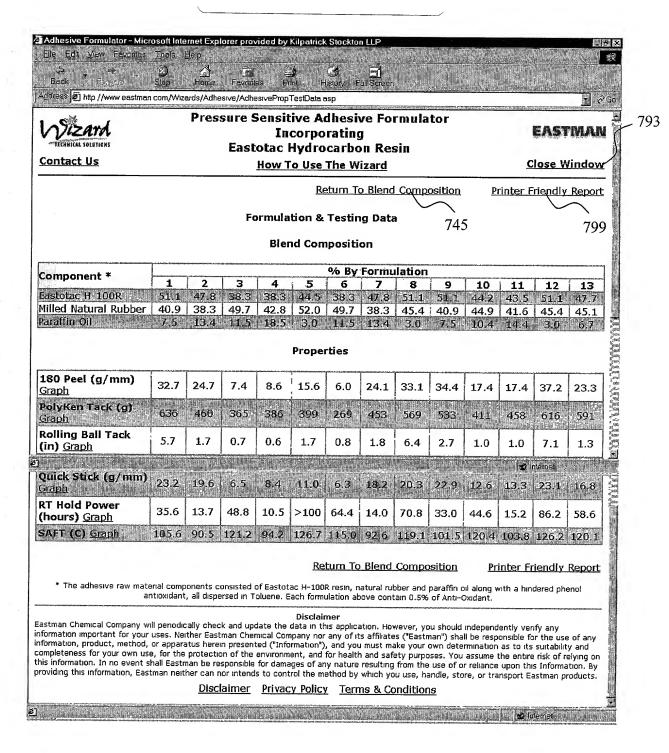


FIGURE 7F

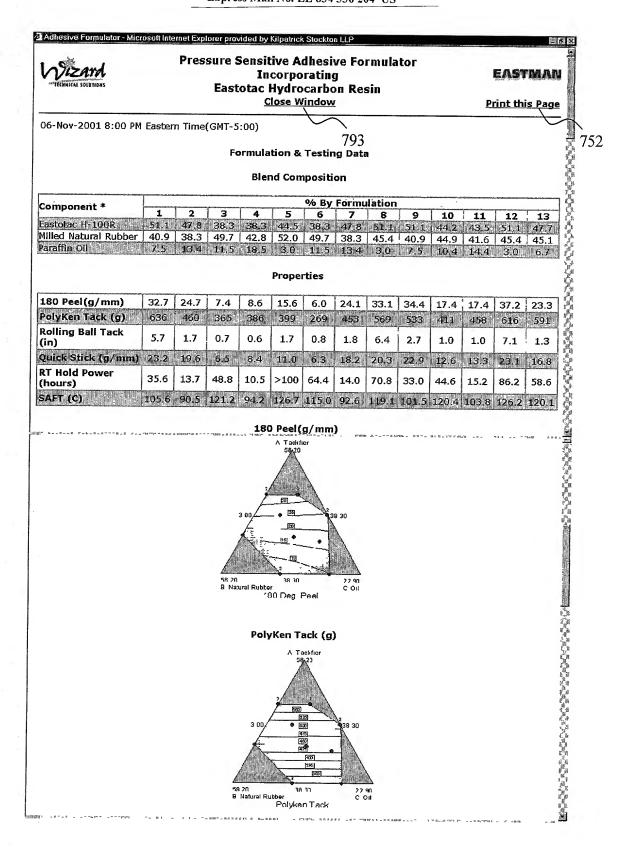
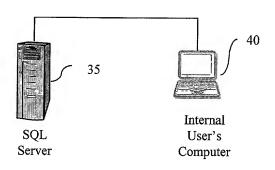


FIGURE 7G



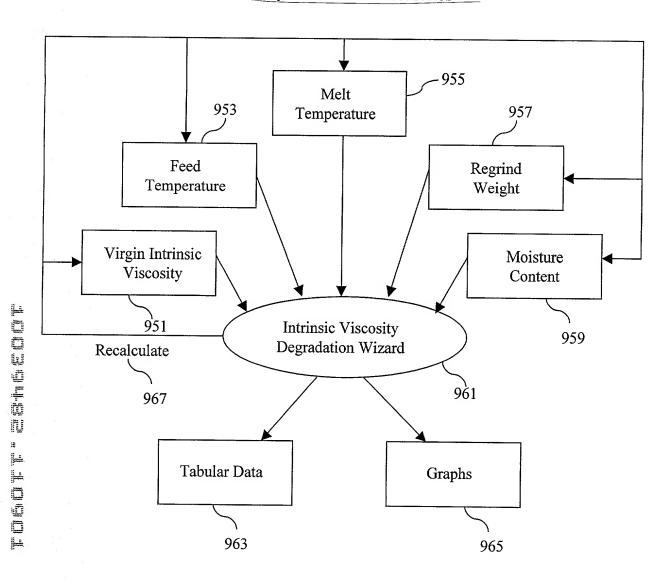


FIGURE 9A

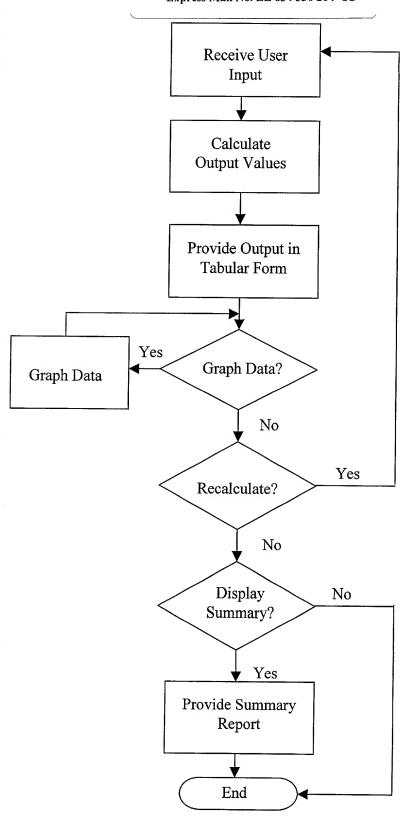


FIGURE 9B

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this information. In no event shall Eastman providing this information, Eastman neither i	ne responsible for domodes	of any natura recul	tima franciska ila ila af		3923

FIGURE 9C

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950	Pass 6	0.926
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	Pass 7	0.926
	Pass 8	0.926
		Printer Friendly Report
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FIGURE 9D

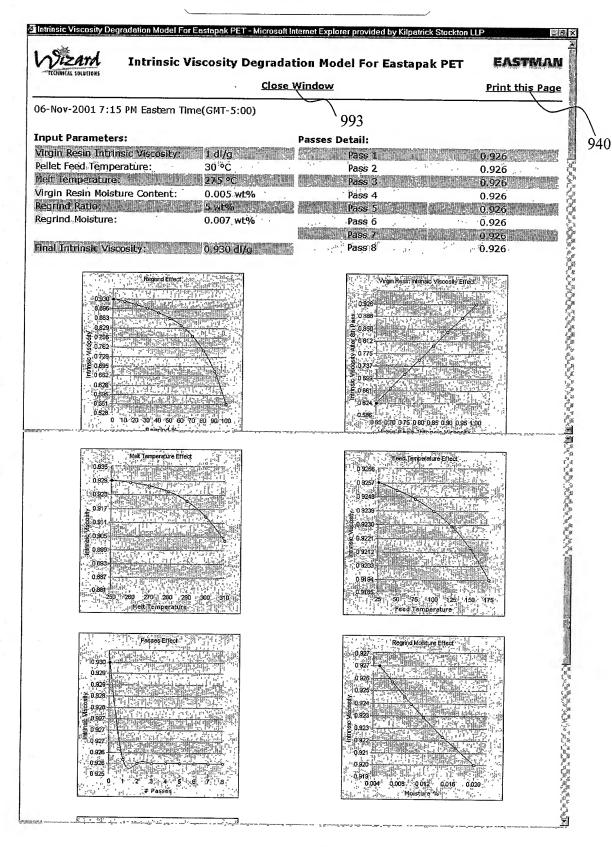


FIGURE 9E

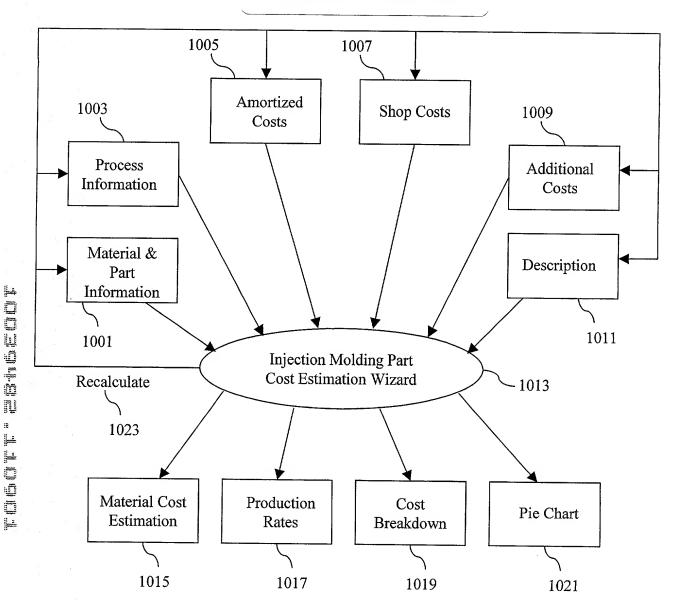


FIGURE 10A

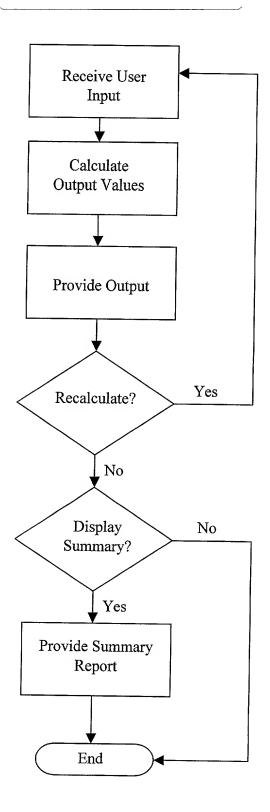


FIGURE 10B

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· · · · · · · · · · · · · · · · · · ·		Virgin Material Use Rate: Material Cost per	
Description:		Acceptable Part:	
Material:	1046	7 1002	
Preferred Currency:	1048	Production Rates:	
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nformation	002 <u>help?</u>	Gross Production Rate:	1000
Part 100 grams	(mass for 1 part only)	Rejected Parts:	!
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lass: *	1004	Rate: Annual Production	i
ost: * 1 /kilogram		Rate:	1
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Process Information	HELP?	Cost Breakdown:	
lumber Of Cavities: *	1 1008	Material:	HELP?
stimated Cycle ime: *	30 Seconds	Operating (Press)	E V
leject Rate: *	1010	Costs: Amortized Costs:	1
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·	1016	Total Part Cost:	\$ \$
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			\$ \$
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FIGURE 10C

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Pasies Technique	
(For U.S. only) <u>click here</u> to get the rate information 1060	
Operating hours per week: * 40 hours 1026	Š
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Additional Cost. HELP?	Ž.
Secondary Operations: * Oper part 1032	
Overhead Expenses: * Miscellaneous Expenses: * O per part 1034 1036	
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Eastman commiscar company will periodically creek and update the data in this application. However, you strinformation important for your uses. Neither Eastman Chemical Company nor any of its affiliates ("Eastman" information, product, method, or apparatus herein presented ("Information"), and you must make your own completeness for your own use, for the protection of the environment, and for health and safety purposes, this information. In no event shall Eastman be responsible for damages of any nature resulting from the use providing this information, Eastman neither can nor intends to control the method by which you use, handle) shall be responsible for the use of any determination as to its suitability and You assume the entire risk of relying on
<u>Disclaimer</u> <u>Privacy Policy</u> <u>Terms & Conditions</u>	
	S Internet
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FIGURE 10D

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Descriptions	HELP	Material Cost Es	timations:	
Company:	ABC	Material Cost per	HELP? 50.00 US per	
Name of part:	Name	Part:	1000 parts	# " 8 7 40
Description:	Description	Virgin Material Use Rate:	· · · · · · · · · · · · · · · ·	
Material:	Plastic	Material Cost per	per:hour 52.78 US per	,
Preferred Currency:	us	Acceptable Part:	1000 parts	
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Material and Part			5	
Information	<u>HELP</u>	Production Rate	š: HELP?	
Part 50 gran	ns (mass for 1 p	Gross Production	108.00 parts per	
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old Amortization Time	2 % % (Wigners Spiral Spira Spiral Spiral Spiral Spiral Spiral Spiral Spiral Spiral Spira Spiral Spira S
	J.,			3005 3000

FIGURE 10E

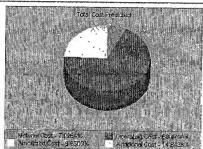
Secondary Operations:

Miscellaneous Expenses: 5 US per part

Overhead Expenses:

Appln. Ser. No. To Be Assigned SOFTWARE ENABLED WIZARDS Inventors: BASSETT et al. Express Mail No. EL 834 336 204 US

🖪 Injection Molding Part Cost Estimation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLI Vizara **Injection Molding Part Cost Estimation** EASTMAN Close Window Print this Page 06-Nov-2001 7:28 PM Eastern Time(GMT-5:00) **Input Values Predicted Values** Descriptions **Material Cost Estimations:** Material Cost per 50.00 US per Company: ABC Part: 1000 parts Name of part: Virgin Material Use 5.13 kilograms Description: Description Rate: per hour Material: **Plastic** Material Cost per 52.78 US per Preferred Currency: Acceptable Part: 1000 parts Material and Part Information Production Rates: Part Mass: **Gross Production** 108.00 parts per 50 grams Rate: Runner Mass: 0 grams hour 10.80 parts per Material Cost: 1 US per kilogram Rejected Parts: hour Acceptable Parts Prod. 97.20 parts per Process Information Rate: hour Number Of Cavities: Annual Production 202,731.43 per Estimated Cycle Time: 30 Seconds Rate: 1000 parts Reject Rate: 10 % % of Rejects Reground: 50 % Cost Breakdown: 52.78 US per Material: Amortized Costs 1000 parts Equipment Costs: 100000 US Operating (Press) 514.40 US per Equipment Amortization Costs: 1000 parts 10 Years Time: 73.99 US per Amortized Costs: Mold Cost: 10000 US 1000 parts Mold Amortization Time: 2 Years 110.00 US per Additional Costs: 1000 parts 751.17 US per Shop Costs Total Part Cost: 1000 parts Operating hours per 40 week: Total Cost Predicted Project Down Time: 10 % Machine Cost: 50 US per hour Additional Cost



Close Window

2 US per part

4 US per part

Print this Page

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1040

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FIGURE 10F

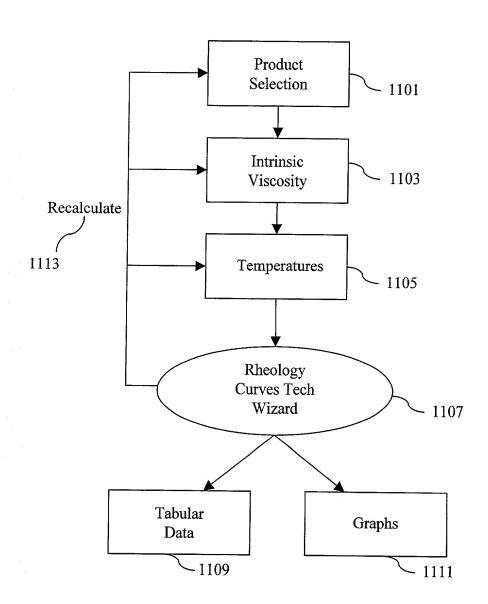


FIGURE 11A

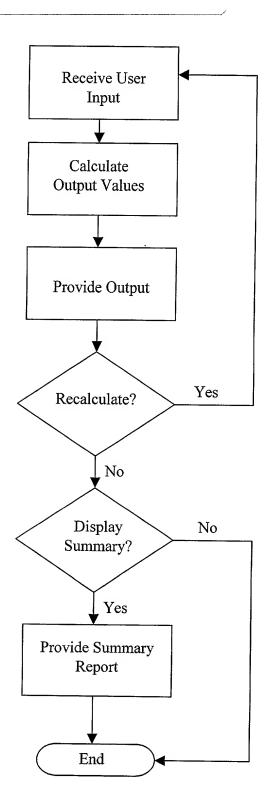


FIGURE 11B

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FIGURE 11C

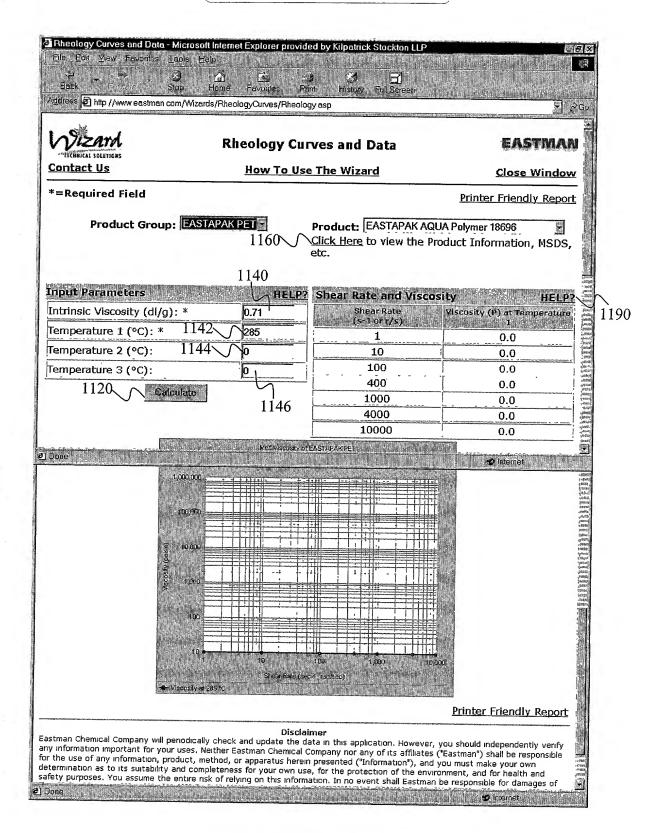


FIGURE 11D

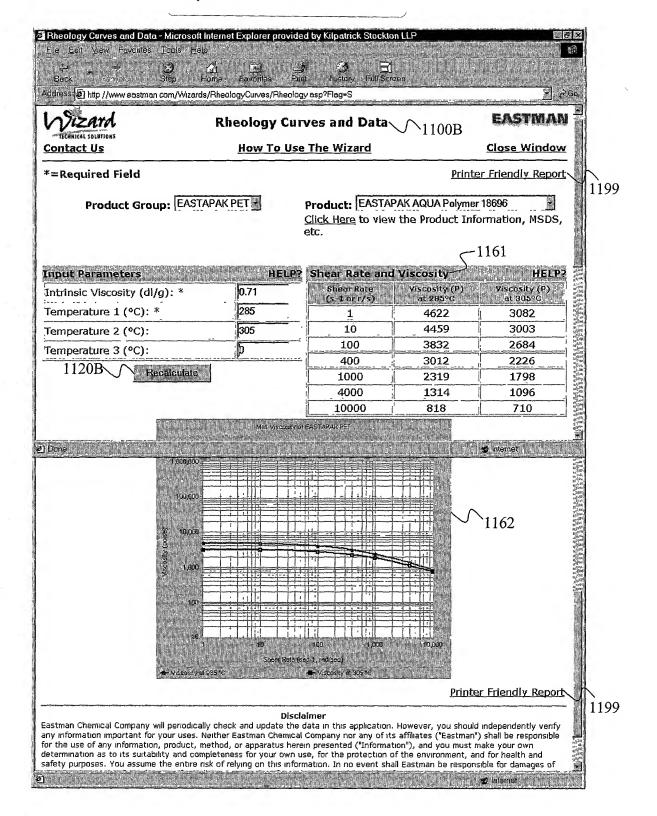


FIGURE 11E

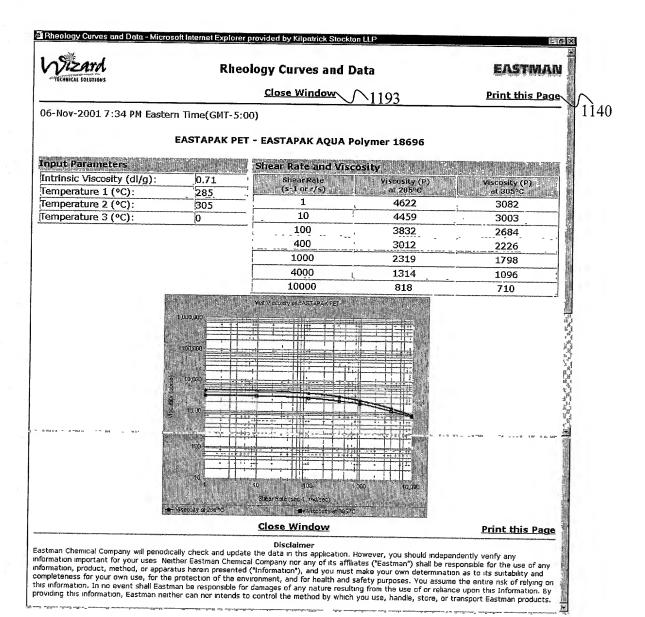


FIGURE 11F

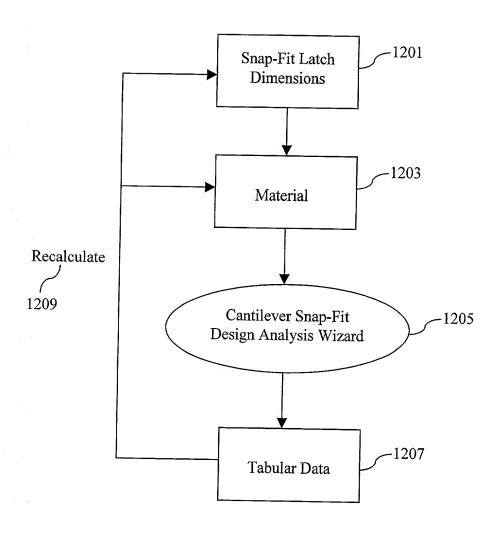


FIGURE 12A

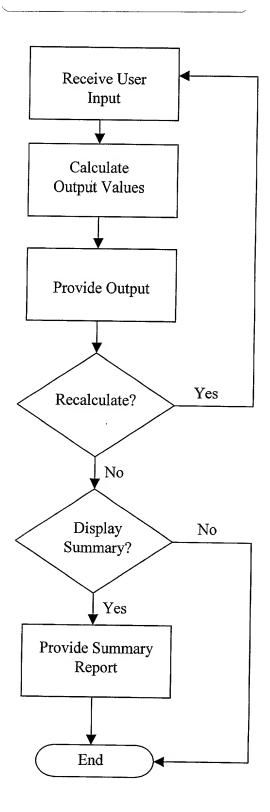


FIGURE 12B

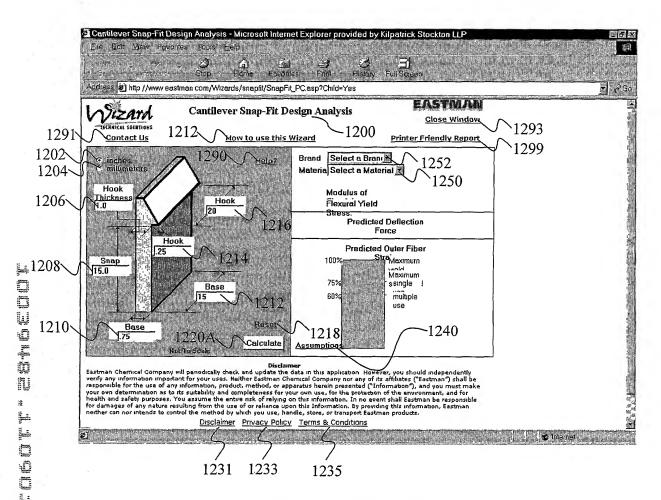


FIGURE 12C

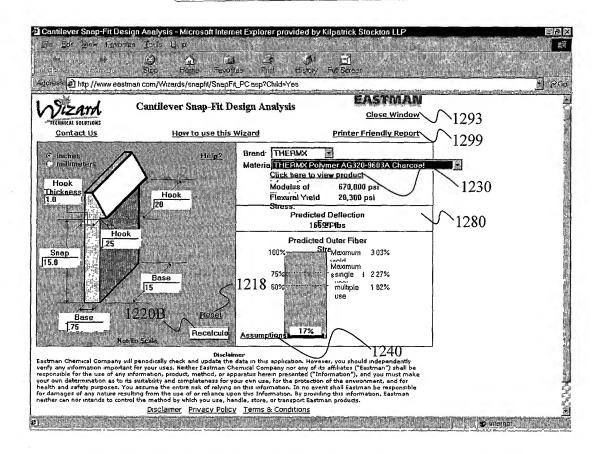


FIGURE 12D

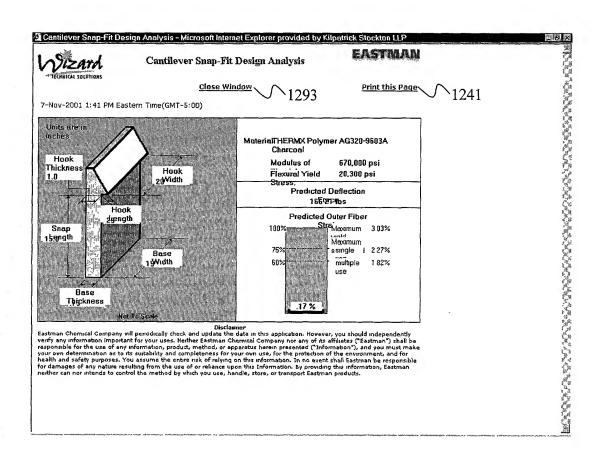


FIGURE 12E

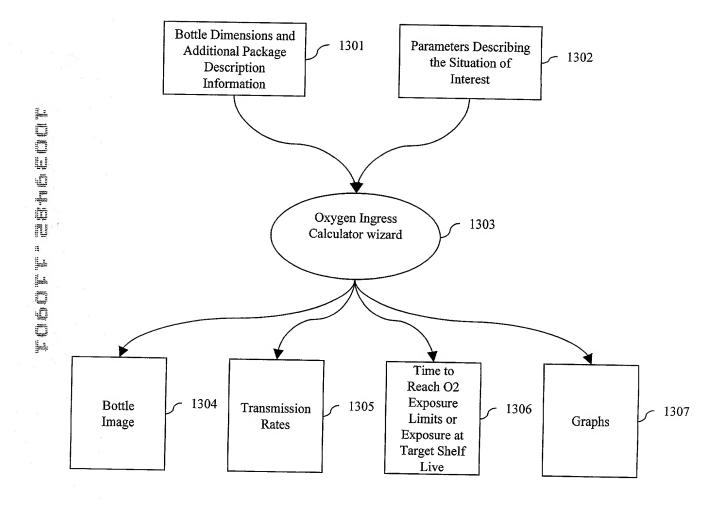
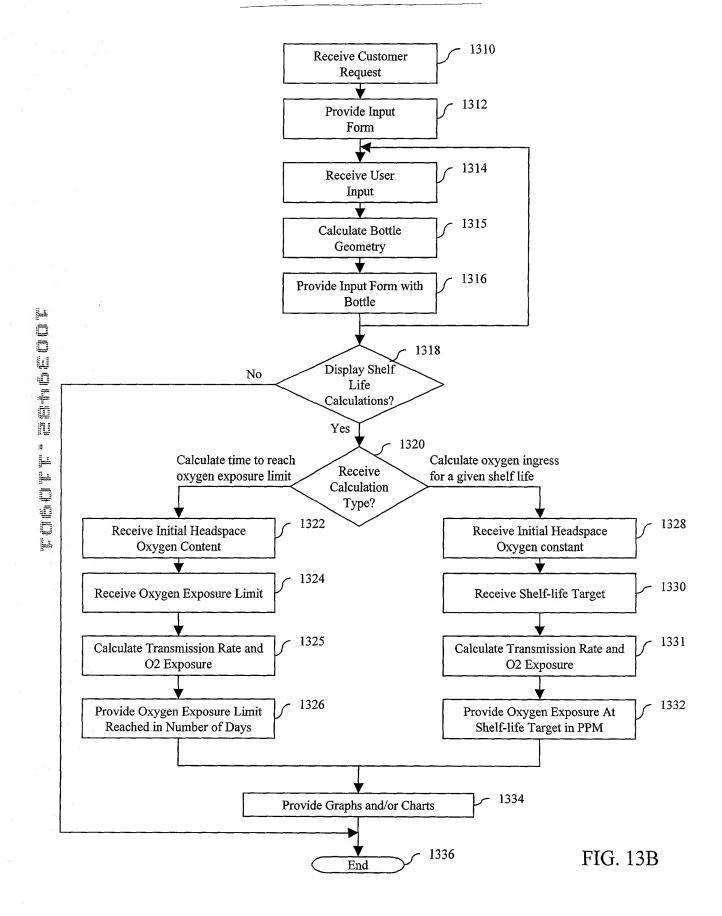


FIG. 13A



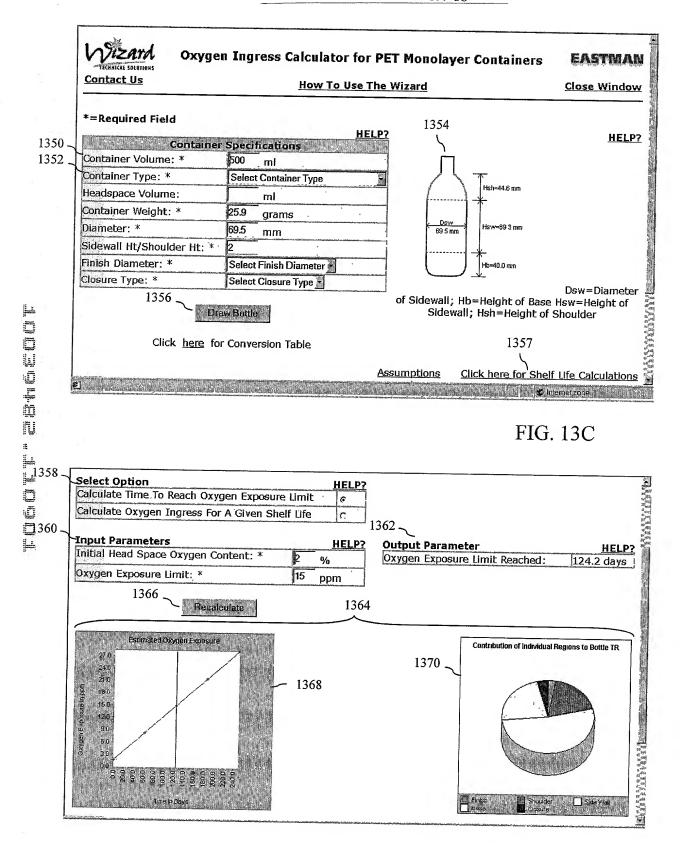


FIG. 13D

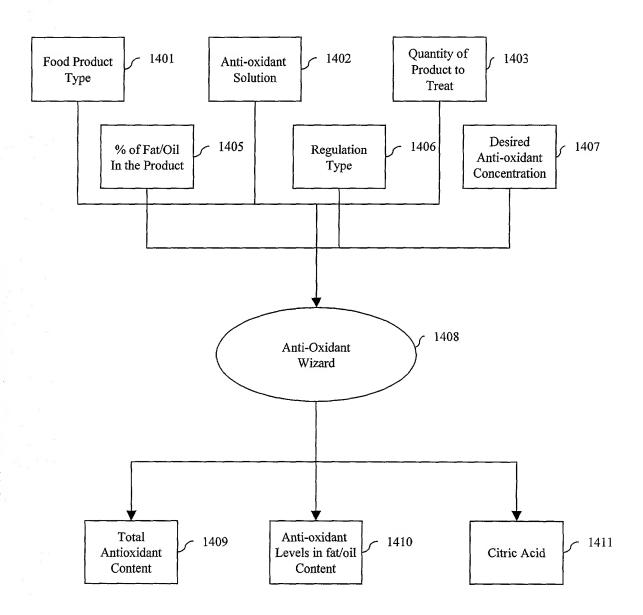


FIG. 14A

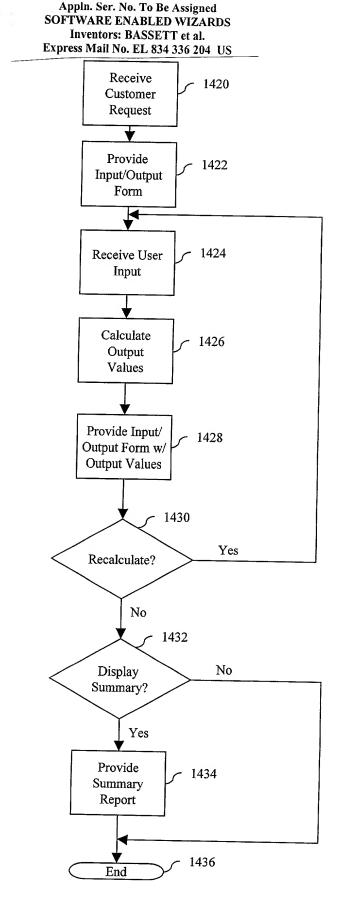
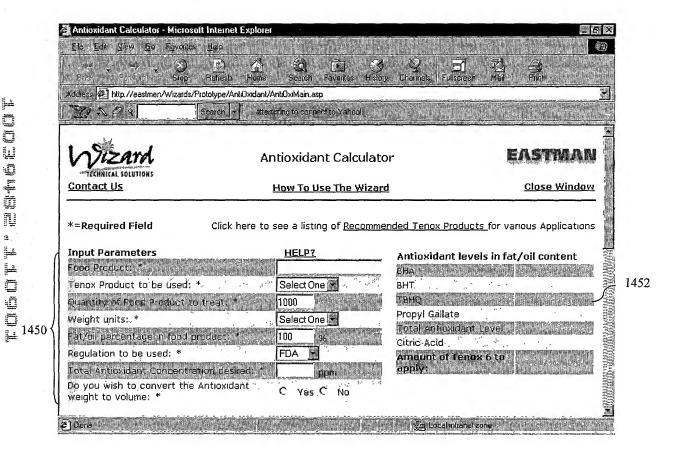


FIG. 14B



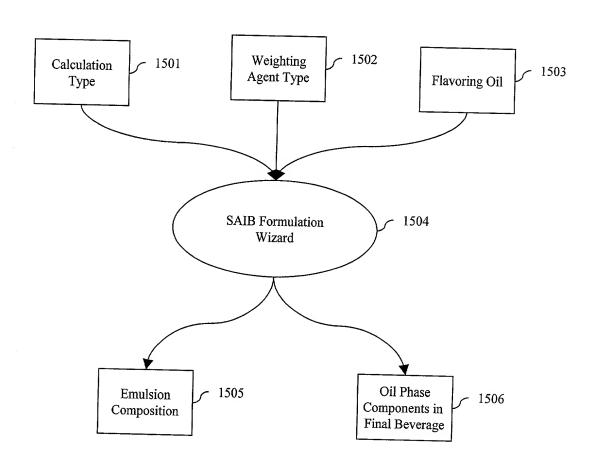
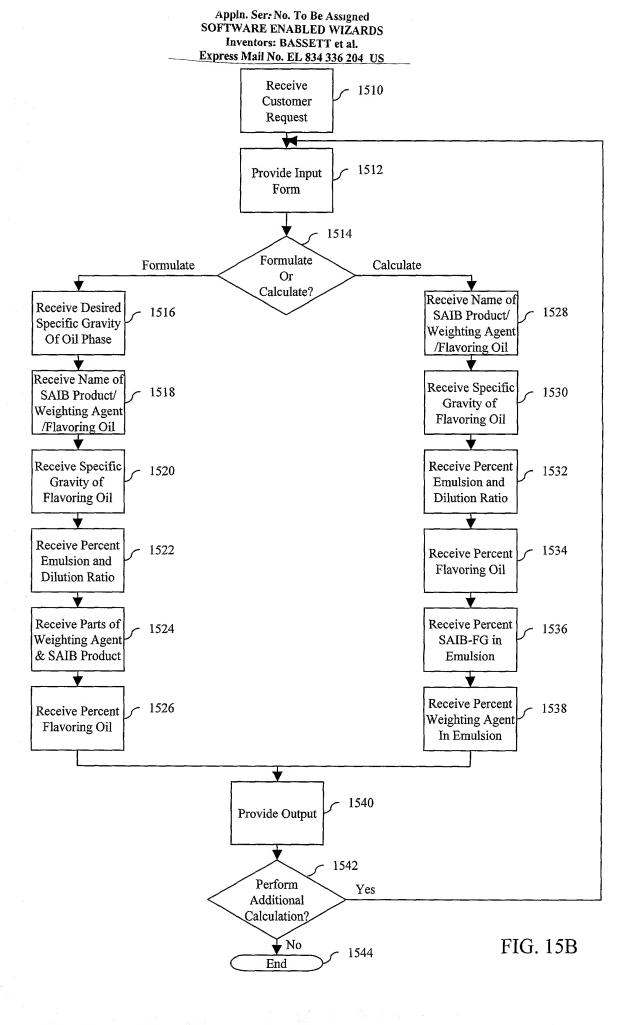
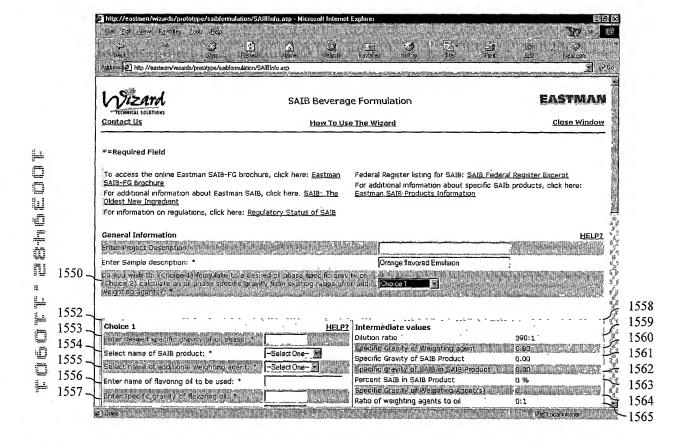
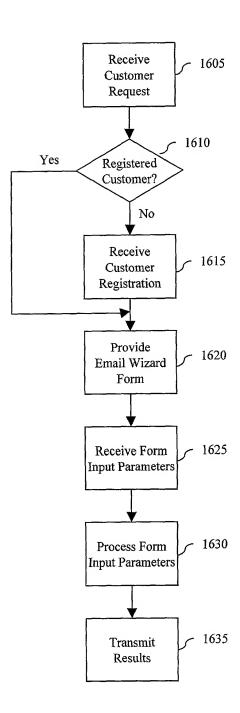
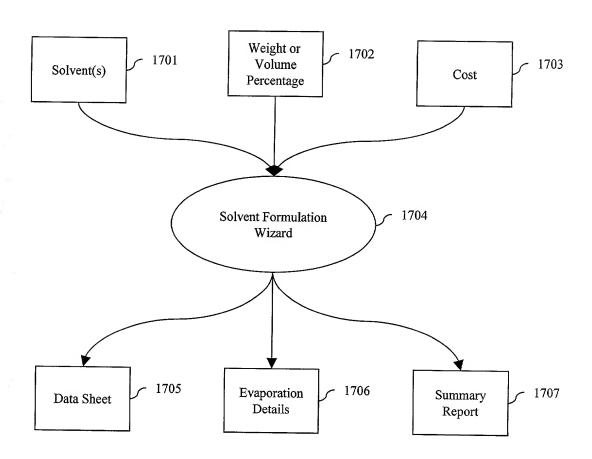


FIG. 15A









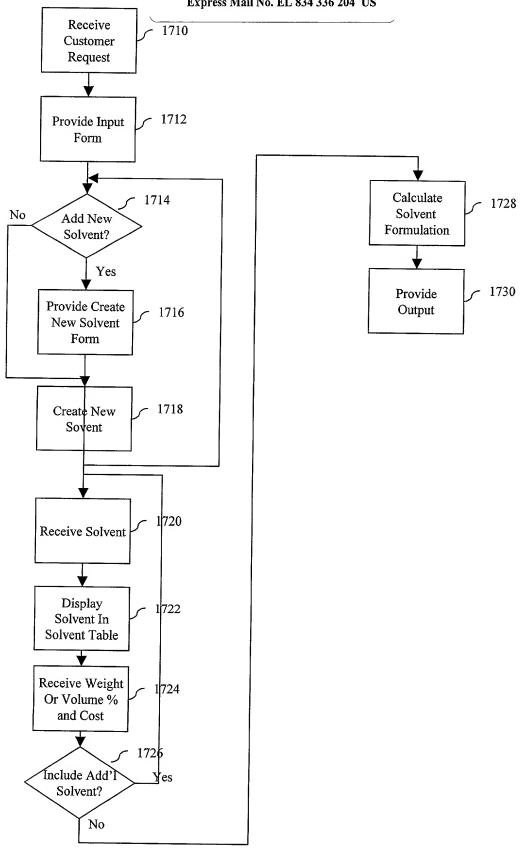


FIG. 17B

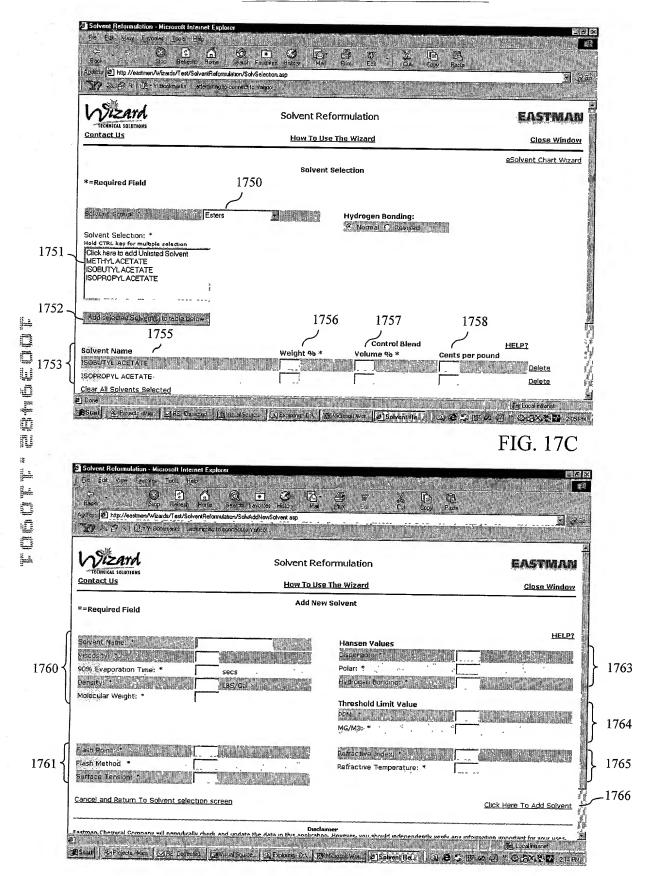


FIG. 17D

1775

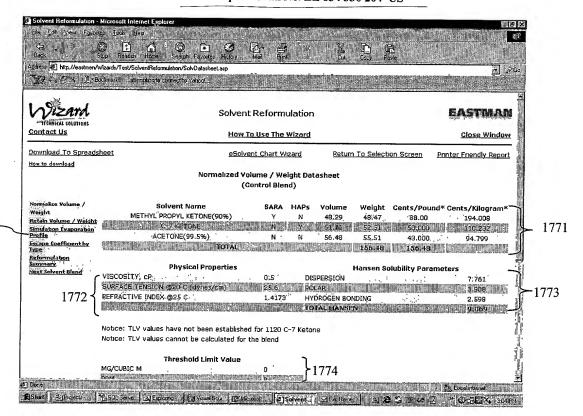


FIG. 17E

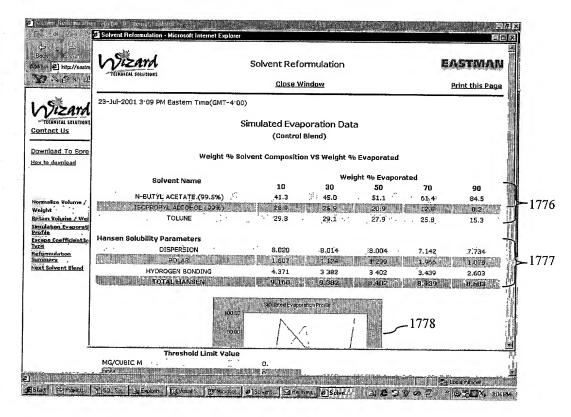


FIG. 17F

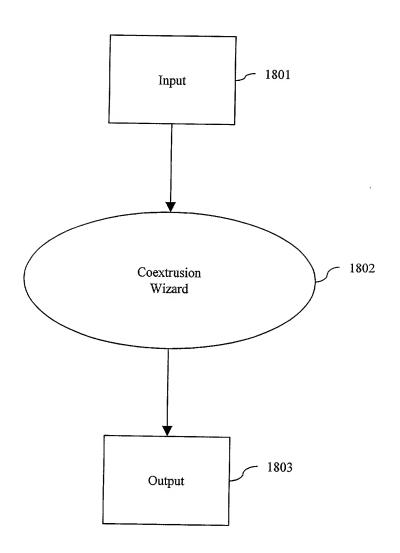


FIG. 18

Compare	Search Help
	election Criteria
Cobranta C	election Criteria
	All' for each criteria and click Create
	eport.
-Supplier:	-Flash Point:
CAIL	CAII C Non-Flash (>=60.5°C
© Eastman	(141°F))
	© Flash (<60.5°C (141°F))
Evaporation Rate:	Water Solubility:
C All	© All
C Medium (3.0 - CSlow (0.6 -	© Soluble
0.6) 0.12) C Very Slow (<0.12)	© InSoluble
Nitrocellulose Solubility:	T-HAPS:
C Latent C Diluent	© All
- Diagne	© Eastman non-HAPs
Sort By:	Chemical Grade
C Flash Point	© All
© Evaporation Rate	C Urethane
- Ctupotation Rate	C Trace Metals (<10 ppb)
	Chemical Grade © All C Urethane C Trace Metals (<10 ppb) Return to e-Solvent Home Page
Create Report Reset Crit	eria Return to e-Solvent Floria Home Page
	TIÁILIG LAÑA

Sort By: 6 Name ← Flash Point ← Evaporation Rate

Solvents Report

Selection Criteria: Sorted By Name, Supplier = Eastman, Flash Point = Flash (<60.5°C (141° F)), Evap Rate = Fast (>=3.0), Water = All, Nitrocelluose = All, HAPS = All, Chemcial Grade = All

Solvent	Eastman Product?	Evaporation Rate, nBuOAc = 1	Flash Point
EASTMAN Acetone, High Purity Sales Grade	Yes	6.3	-20°C (-4°F)
EASTAPURE Ethyl Acetate	Yes	4.1	-4°C (24°F)
EASTMAN Ethyl Acetate,85- 88%	Yes	4.2	-3°C (27°F)
EASTMAN Ethyl Acetate, Urethane Grade	Yes	4.1	-4°C (24°F)
EASTMAN Isopropyl Acetate	Yes	3	2°C (35°F)
EASTMAN Methyl Acetate	Yes	6.0	-13°C (9°F)
EASTMAN Methyl Acetate	Yes	6.0	-15°C (9°F)
EASTMAN Methyl Acetate	Yes	6.0	-13°C (5°F)
EASTMAN Methyl Acetate	Yes	6.0	-15°C (5°F)

Return to Selection Page

Printer Friendly Report

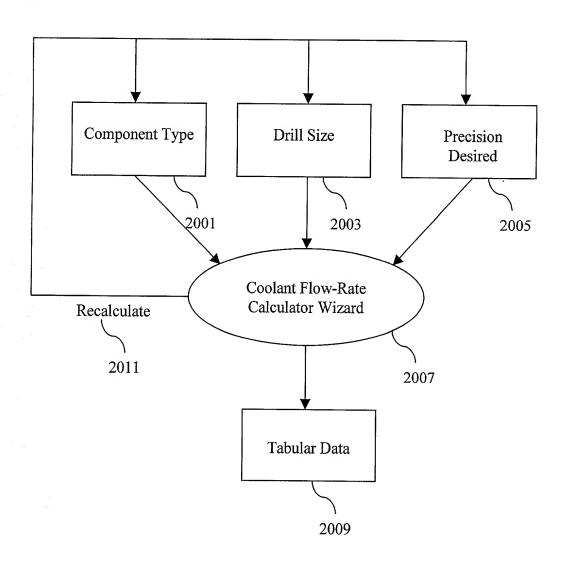


FIGURE 20A

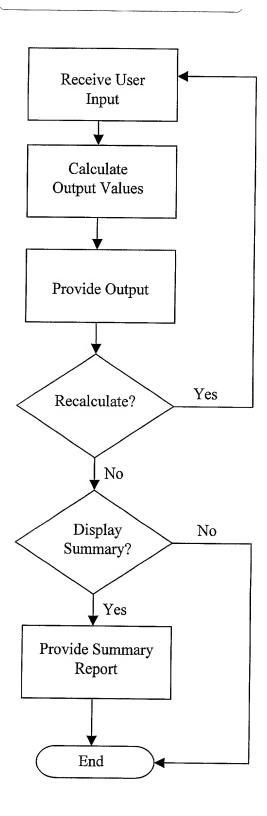


FIGURE 20B

Address 🖨 http://www.east	man.com/Wizards/flowrate/FlowRatePC asp
Wizard	Coolant Flow Rate Calculator 2000 Close Window
Contact Us	How to use this Wizard \square 2012
Select the desire	d component calculation: channel, baffle, or bubbler:
ৈ Channels ৈ Baffles ৈ Bubblers	Select Pipe (Drill) 2020
Precision (Significant D	
Calculate Minimu	m water flow rate to achieve turbulent flow
information important for information, product, met completeness for your ow	Disclaimer ny will periodically check and update the data in this application. However, you should independently verify any your uses. Neither Eastman Chemical Company nor any of its affiliates ("Eastman") shall be responsible for the use of an nod, or apparatus herein presented ("Information"), and you must make your own determination as to its suitability and in use, for the protection of the environment, and for health and safety purposes. You assume the entire risk of relying in thall Eastman be responsible for damages of any nature resulting from the use of or relaince upon this Information. B

FIGURE 20C

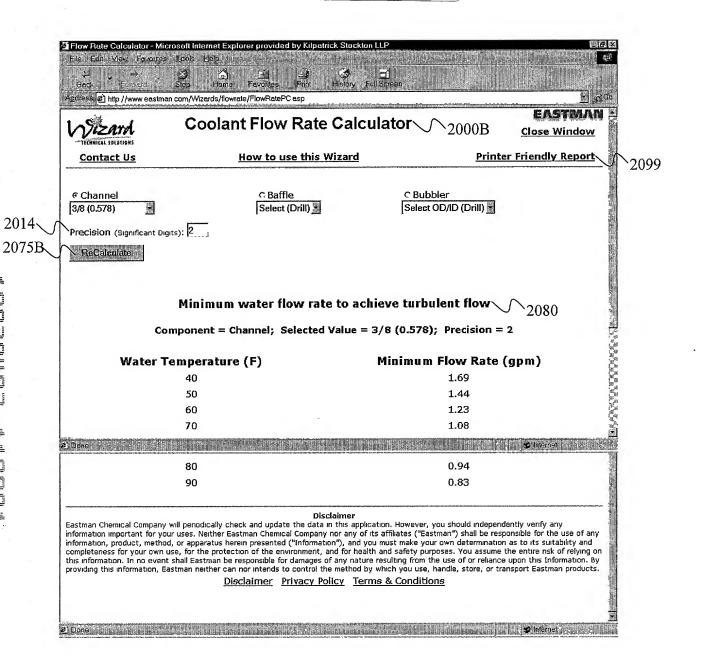


FIGURE 20D

Flow Rate Calculator - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP Coolant Flow Rate Calculator Close Window Print this Page 2041 7-Nov-2001 9:58 AM Eastern Time(GMT-5:00) Minimum water flow rate to achieve turbulent flow Component = Bubbler; Selected Value = 0.125/0.069 (0.143); Precision = 3 Water Temperature (F) Minimum Flow Rate (gpm) 40 0.719 50 0.612 60 0.523 70 0.458 80 0.402 90 0.355 Disclaimer Eastman Chemical Company will periodically check and update the data in this application. However, you should independently verify any information important for your uses. Neither Eastman Chemical Company nor any of its affiliates ("Eastman") shall be responsible for the use of any information, product, method, or apparatus herein presented

FIGURE 20E